

TABLE 2-1c
SUMMARY OF ALTERNATIVES

Alternative Summary	Ecosystem Restoration	Flood Risk and Stormwater Management	Public Access and Visitor Amenities	Infrastructure and Utility Modifications	Implementation and Restoration Process
Alternative 1: Full Tidal Restoration/Proposed Action					
Restore contiguous tidal wetlands north of Culver Boulevard and enhance managed wetlands south of Culver Boulevard (South Area B).	<p>Phased Restoration:</p> <ul style="list-style-type: none">Phase 1 (Interim Restoration):<ul style="list-style-type: none">Area A and North Area B tidal wetland restoration and Ballona Creek realignmentSouth/Southeast Area B managed wetland enhancementEast Area B (western portion), North Area C, and South Area C (eastern portion) upland habitat restorationPhase 2 (Final Restoration): West Area B tidal restoration	<ul style="list-style-type: none">Remove existing armored levees along Area A and North and West Area BInstall new partially-earthen perimeter levees in Area A, along the North side of Culver Boulevard, and in North and West Area BInstall new water-control structures in South Area BConstruct Culver Boulevard stormwater detention wetland	<ul style="list-style-type: none">Construct levee trail and bike pathsAdd gateway entrances with art/education installationsConstruct new three-story parking structure, improve existing West Culver Parking LotInstall two new permanent bridges for public access	<ul style="list-style-type: none">Gas well abandonment and replacement with phasingGas pipeline relocation (Phase 1)Removal of abandoned sewer pipe	<ul style="list-style-type: none">Large-scale grading:<ul style="list-style-type: none">Up to approximately 2,440,000 cubic yards (cy) of on-site soil excavation, transport, and placement (fill for levees and uplands)Fill will be stockpiled in East Area B and the Culver levee (Phase 1)10,000 – 110,000 cy of off-site soil exportInstall two new bridges for temporary soil transport/public access, which will later become permanent bridges for public accessRemove existing levees and realign Ballona CreekRevegetation
Alternative 2: Restored Partial Sinuous Creek					
Restore contiguous tidal wetlands in Area A and North Area B, maintain existing managed wetland in West Area B, and enhance managed wetlands in South Area B.	<p>Restoration:</p> <ul style="list-style-type: none">Area A and North Area B tidal wetland restoration and Ballona Creek realignmentSouth/Southeast Area B managed wetland enhancementEast Area B, North Area C, and South Area C upland habitat restoration	<ul style="list-style-type: none">Remove existing armored levees along Area A and North Area BInstall new partially-earthen perimeter levees in Area A and along the North side of Culver BoulevardInstall new water-control structures in South Area BConstruct Culver Boulevard stormwater detention wetland	<ul style="list-style-type: none">Construct levee trail and bike pathsAdd gateway entrances with art/education installationsConstruct new three-story parking structure, improve existing West Culver Parking LotInstall two new permanent bridges for public access	<ul style="list-style-type: none">Gas well abandonment and replacementGas pipeline relocationRemoval of abandoned sewer pipe	<ul style="list-style-type: none">Large-scale grading:<ul style="list-style-type: none">2,130,000 cy of on-site soil excavation, transport, and placement (fill for levees and uplands)10,000 cy of off-site soil exportInstall two new bridges for temporary soil transport/public access, which will later become permanent bridges for public accessRemove existing levees, except in West Area B, realign Ballona CreekRevegetation
Alternative 3: Levee Culverts and Oxbow					
Restore tidal wetlands in Area A and maintain existing Area B managed wetlands.	<p>Restoration:</p> <ul style="list-style-type: none">Area A tidal wetland restoration with new Ballona Creek water-control structures	<ul style="list-style-type: none">Install new Area A perimeter leveeInstall new Area A water-control structures (i.e., tide gates) along area AConstruct Culver Boulevard stormwater detention wetland	<ul style="list-style-type: none">Construct levee trail and bike pathsAdd gateway entrances with art/education installationsConstruct new three-story parking structure, improve existing West Culver Parking LotInstall one new bridge for public access	<ul style="list-style-type: none">Gas well abandonment and replacementRemoval of abandoned sewer pipe	<ul style="list-style-type: none">Large-scale grading:<ul style="list-style-type: none">1,420,000 cy of on-site soil excavation, transport, and placement1,230,000 cy of off-site soil exportInstall one new bridge for temporary soil transport/public access, which will later become permanent bridges for public accessInstall new water-control structures in existing Area A levee (i.e., north Ballona Creek levee)Revegetation

TABLE 2-1c (Continued)
SUMMARY OF ALTERNATIVES

Alternative Summary	Ecosystem Restoration	Flood Risk and Stormwater Management	Public Access and Visitor Amenities	Infrastructure and Utility Modifications	Implementation and Restoration Process
Alternative 4: No Federal Action/No Project					
No actions requiring federal, state, or local discretionary approval would be allowed.	<ul style="list-style-type: none">No change.Existing management and community volunteer restoration efforts would continue.Ongoing influence of sea level rise would substantially impact tidal wetlands and related habitats over timeInvasive species would continue to invade the Project site and degradation that has been documented for the past six years would continue.	<ul style="list-style-type: none">No change to existing levees or other infrastructure would occur.No culverts would be created, and no new levee armoring would occur.	<ul style="list-style-type: none">No changeNo new visitor or recreational amenities would be providedExisting public access restrictions would continueNo parking structure would be built, and no improvements to existing parking areas would be made.	<ul style="list-style-type: none">No change.SoCalGas would continue to manage wells and pipelines within the Ballona Reserve and independently would pursue well and pipeline abandonment and/or relocation based on the utility's priorities.	<ul style="list-style-type: none">No increase in waters of the U.S. would occurCDFW would continue to remove trash and debris, remove homeless encampments, and monitor and enforce other unauthorized or illegal activities.Management of existing tide gates would continue until their permanent closure is necessitated, e.g., by the impacts of sea level rise.Removal of invasive vegetation species by volunteers using hand tools could continue (no heavy equipment currently is used on site for the purposes of restoration).